IM-RXV1 iMedia Receiver, Single Input

Crestron's iMedia provides an extremely simple and affordable multimedia presentation solution for small conference rooms and training rooms. No comparable solution comes close to matching iMedia's speed and ease of installation, intuitive operation, and incredibly low cost.

The iMedia Transport—The iMedia transport utilizes a single CAT5e* type cable to transmit computer RGB, video, and stereo audio signals to a single projector or plasma display. A typical XGA signal (1024 X 768 pixels at 60Hz) can be transmitted up to 84 feet using iMedia, while higher resolutions up to 1600 x 1200 can be handled over shorter distances. Audio is transmitted digitally at 20-bit, 48 kHz resolution. Control and power signals are also contained on the same wire, eliminating the need for separate control or power cables.

iMedia Receiver—Mounted at the projector or plasma display, the IM-RXV1 receives the iMedia (IM) signal from a single IM transmitter, breaking out the RGB, video, audio, and control signals for connection to the display device. Adjustable bandwidth compensation is provided to maximize image quality over long cable runs.

Integrated Audio—The IM-RXV1 includes a built-in 20 watt stereo amplifier to drive a pair of 8 ohm speakers. Balanced line-level outputs are also provided to allow the audio signal to be connected directly to inputs on the display device or fed to a pair of powered speakers. Onboard digital signal processing affords adjustment of master volume, bass, treble and balance settings at setup.

Display Control—The IM-RXV1 contains both IR and bidirectional RS-232 ports to enable full control of the display device. Two relay ports are also included for control of a projection screen or lift. In addition, the four digital input ports can accept the direct connection of room occupancy sensors and power sensors for enhanced automation and monitoring.

e-Control®2 and RoomView®—Despite its simple design and low cost, the IM-RXV1 supports Crestron's powerful e-Control 2 XPanel and RoomView applications, delivering the industry's best help desk and resource management solution for any number of rooms equipped with iMedia.

Fast, Easy Setup—System setup takes mere minutes using iMedia Wizard software, providing easy start-to-finish configuration, adjustment, and documentation.

- A simple, affordable solution for single-display multimedia presentation
- iMedia Transport for fast and easy single-cable installation
- Supports XGA resolution up to 84 feet, UXGA maximum up to 34 feet
- Supports composite video signals
- Built-in LAN, RS-232, IR, relays and digital input control ports
- Built-in 20W stereo amp and line outputs
- Complete setup in minutes using iMedia Wizard Software
- Built-in Web-server supports e-Control 2 and RoomView

SPECIFICATIONS

RGB

Gain: 0dB (75 ohm termination)
Formats: RGBHV, RGBS, or RG$_S$B
Resolution: 1024 x 768 @ 60Hz with maximum cable length of 84 feet, 1600 x 1200 @ 60Hz with maximum cable length of 34 feet; see manual for other resolutions

Video

Gain: 0dB (75 ohm termination)
Formats: 480i (NTSC), 576i (PAL)

Audio

D-A Conversion: 20-bit, 48 kHz
Bass/Treble Gain Range: ±12dB
Frequency Response: 20Hz to 20kHz ±0.5dB (line), 20Hz to 20kHz ±1dB (speaker)
S/N Ratio: 82dB (line), 80 dB (speaker) 20Hz to 20kHz A-weighted
THD+N: 0.05% (line), 0.7% (speaker) 20Hz to 20kHz

Ethernet

10/100BaseT, static IP or DHCP/DNS, auto-negotiating, built-in Web server, supports Crestron e-Control 2 XPanel and RoomView applications

Connectors (Front Panel)

IM: (1) 8-wire RJ45 female, iMedia input port
Connects to IM output port of an iMedia transmitter via CresCAT-IM cable*

AUDIO: (1) 5-pin 3.5mm detachable terminal block
Balanced stereo line-level audio output
Maximum Output Level: 4 V_{RMS} balanced, 2 V_{RMS} unbalanced
Output Impedance: 200 ohms balanced, 100 ohms unbalanced

SPEAKER L – R: (2) 2-pin 5mm detachable terminal blocks
Left and Right speaker-level audio outputs
Output Power: 10 Watts per channel
Minimum Impedance: 8 ohms

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iMedia Receiver, Single Input IM-RXV1

Connectors (Rear Panel)

18VDC: (1) 3-pin DC power jack (power supply included)

RELAY OUTPUT 1 – 2, INPUT 1 – G: (1) 9-pin 3.5mm detachable terminal block comprising (2) normally open, isolated relays, and (4) digital input ports referenced to ground;
Relay Rating: 2 Amp, 50 Volts AC/DC; MOV arc suppression
Input Rating: 0-24 Volts DC
Input Impedance: 2k ohms pulled up to 5 Volts DC
Input Logic Threshold: 2.5 Volts DC nominal

IR: (1) 3.5mm TRS mini-phone jack, IR output port
Connects to STIRP IR emitter probe (sold separately) IR output up to 1.2 MHz

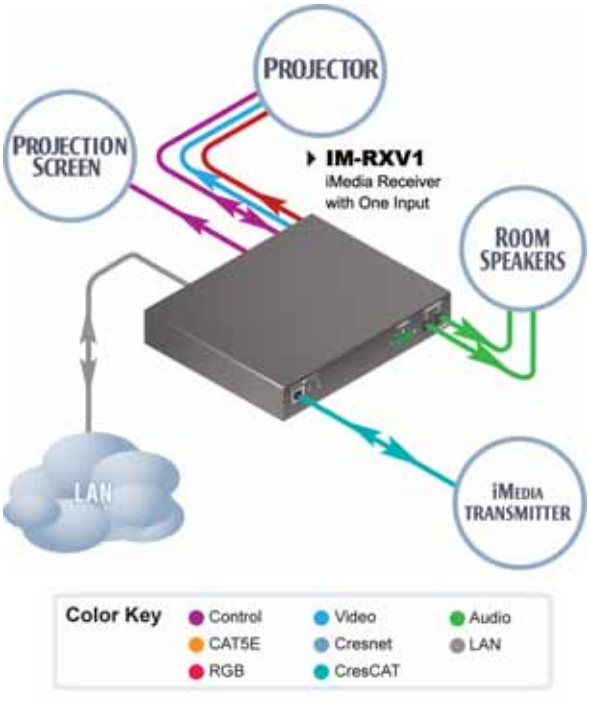
COMPUTER: (1) 6-pin RJ11 female, computer console port

LAN: (1) 8-Wire RJ45 with 2 LED indicators
10/100BaseT Ethernet port
Green LED indicates link status
Yellow LED indicates Ethernet activity

COM: (1) DB9 male, bidirectional RS-232 port
Up to 115.2k baud; hardware and software handshaking support

VIDEO: (1) RCA female, composite video output
Output Impedance: 75 ohms
Output Level: 1 V_{P-P} nominal

Typical IM-RXV1 Connections



G: (1) 6-32 screw, chassis ground lug

RGBHV: (1) DB15HD female, RGB output
Formats: RGBHV, RGBS, RG_SB
Output Impedance: 75 ohms
Sync Impedance: 100 ohms
Maximum Output Level: 1 V_{P-P} maximum
Sync Level: 5 V_{P-P}

Controls

IM: (1) Screwdriver-adjustable bandwidth compensation (peak) adjustment
SW-R: (1) Recessed pushbutton for software reset

LED Indicators

PWR: (green) Indicates power connected to 18VDC connector
INPUT: (red) Indicates activity on any input port
IR: (red) Indicates activity on IR port
COM: (red) Indicates activity on COM port

Power Requirements

IM-RXV1: 54 Watts (3 Amps) @ 18 Volts DC
PW-1830RU Power Supply (included):
<1.6 Amps @ 100-240 Volts AC

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Black metal; freestanding, surface mount using "L" brackets provided, or pole mount using optional pole mount kit (sold separately)

Dimensions

Height: 1.61 in (4.08 cm)
Width: 8.75 in (22.23 cm)
Depth: 7.69 in (19.53 cm)

Weight

1.75 lbs (0.80 kg)

INCLUDED ACCESSORIES

PW-1830RU
Power Supply

** For iMedia use CresCAT-IM cable, or quality CAT5e/CAT6 cable having a maximum delay skew of 15nS per 100m.*

AVAILABLE ACCESSORIES

- **MK-IM-RX** — Pole Mount Kit
- **CNSP-XX** — Custom Serial Interface Cable
- **STIRP** — IR probe
- **CNXRMCS** — Current Sensor

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IM-RXV3 iMedia Receiver, 3 Inputs

Crestron's iMedia provides an extremely simple and affordable multimedia presentation solution for small conference rooms and training rooms. No comparable solution comes close to matching iMedia's speed and ease of installation, intuitive operation, and incredibly low cost.

The iMedia Transport—The iMedia transport utilizes a single CAT5e* type cable to transmit computer RGB, video, and stereo audio signals to a single projector or plasma display. A typical XGA signal (1024 X 768 pixels at 60Hz) can be transmitted up to 84 feet using iMedia, while higher resolutions up to 1600 x 1200 can be handled over shorter distances. Audio is transmitted digitally at 20-bit, 48 kHz resolution. Control and power signals are also contained on the same wire, eliminating the need for separate control or power cables.

Three-Input iMedia Receiver—Mounted at the projector or plasma display, the IM-RXV3 receives iMedia (IM) signals from up to three IM transmitters, breaking out the RGB, video, audio, and control signals for connection to the display device. Adjustable bandwidth compensation is provided on each IM input to maximize image quality over long cable runs.

Integrated Audio—The IM-RXV3 includes a built-in 20 watt stereo amplifier to drive a pair of 8 ohm speakers. Balanced line-level outputs are also provided to allow the audio signal to be connected directly to inputs on the display device or fed to a pair of powered speakers. Onboard digital signal processing affords adjustment of master volume, bass, treble and balance settings at setup.

Display Control—The IM-RXV3 contains both IR and bidirectional RS-232 ports to enable full control of the display device. Two relay ports are also included for control of a projection screen or lift. In addition, the four digital input ports can accept the direct connection of room occupancy sensors and power sensors for enhanced automation and monitoring.

e-Control®2 and RoomView®—Despite its simple design and low cost, the IM-RXV3 supports Crestron's powerful e-Control 2 XPanel and RoomView applications, delivering the industry's best help desk and resource management solution for any number of rooms equipped with iMedia.

Fast, Easy Setup—System setup takes mere minutes using iMedia Wizard software, providing easy start-to-finish configuration, adjustment, and documentation.

- A simple, affordable solution for single-display multimedia presentation
- Supports up to 3 IM transmitters
- iMedia Transport for fast and easy single-cable installation
- Supports XGA resolution up to 84 feet, UXGA maximum up to 34 feet
- Supports composite video signals
- Built-in LAN, RS-232, IR, relays and digital input control ports
- Built-in 20W stereo amp and line outputs
- Complete setup in minutes using iMedia Wizard Software
- Built-in Web-server supports e-Control 2 and RoomView

SPECIFICATIONS

RGB

Gain: 0dB (75 ohm termination)
Formats: RGBHV, RGBS, or RGsB
Resolution: 1024 x 768 @ 60Hz with maximum cable length of 84 feet, 1600 x 1200 @ 60Hz with maximum cable length of 34 feet; see manual for other resolutions

Video

Gain: 0dB (75 ohm termination)
Formats: 480i (NTSC), 576i (PAL)

Audio

D-A Conversion: 20-bit, 48 kHz
Bass/Treble Gain Range: ±12dB
Frequency Response: 20Hz to 20kHz ±0.5dB (line), 20Hz to 20kHz ±1dB (speaker)
S/N Ratio: 82dB (line), 80 dB (speaker) 20Hz to 20kHz A-weighted
THD+N: 0.05% (line), 0.7% (speaker) 20Hz to 20kHz

Ethernet

10/100BaseT, static IP or DHCP/DNS, auto-negotiating, built-in Web server, supports Crestron e-Control 2 XPanel and RoomView applications

Connectors (Front Panel)

IM 1 – 3: (3) 8-wire RJ45 female, iMedia input ports
Connect to IM output ports of up to 3 iMedia transmitters via CresCAT-IM cable

AUDIO: (1) 5-pin 3.5mm detachable terminal block
Balanced stereo line-level audio output
Maximum Output Level: 4 V_{RMS} balanced, 2 V_{RMS} unbalanced
Output Impedance: 200 ohms balanced, 100 ohms unbalanced

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iMedia Receiver, 3 Inputs IM-RXV3

SPEAKER L – R: (2) 2-pin 5mm detachable terminal blocks
Left and Right speaker-level audio outputs
Output Power: 10 Watts per channel
Minimum Impedance: 8 ohms

Connectors (Rear Panel)

18VDC: (1) 3-pin DC power jack (power supply included)

RELAY OUTPUT 1 – 2, INPUT 1 – G: (1) 9-pin 3.5mm detachable terminal block comprising (2) normally open, isolated relays, and (4) digital input ports referenced to ground;
Relay Rating: 2 Amp, 50 Volts AC/DC; MOV arc suppression
Input Rating: 0-24 Volts DC
Input Impedance: 2k ohms pulled up to 5 Volts DC
Input Logic Threshold: 2.5 Volts DC nominal

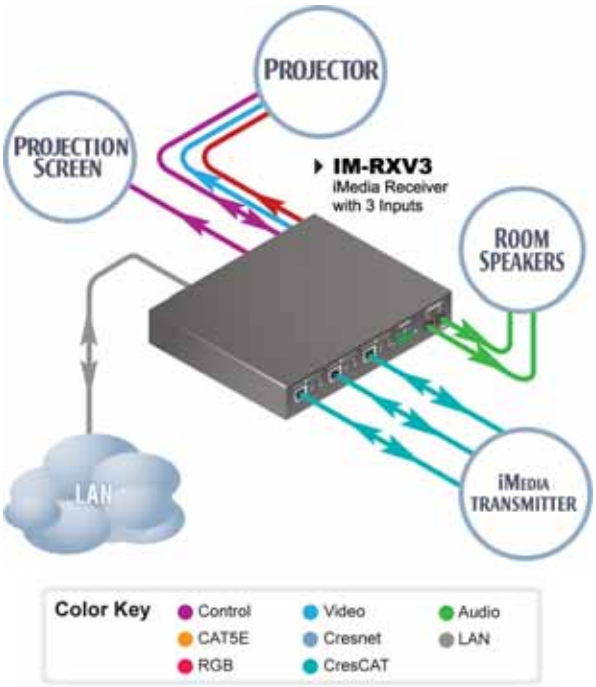
IR: (1) 3.5mm TRS mini-phone jack, IR output port
Connects to STIRP IR emitter probe (sold separately) IR output up to 1.2 MHz

COMPUTER: (1) 6-pin RJ11 female, computer console port

LAN: (1) 8-Wire RJ45 with 2 LED indicators
10/100BaseT Ethernet port
Green LED indicates link status
Yellow LED indicates Ethernet activity

COM: (1) DB9 male, bidirectional RS-232 port
Up to 115.2k baud; hardware and software handshaking support

Typical IM-RXV3



VIDEO: (1) RCA female, composite video output
Output Impedance: 75 ohms
Output Level: 1 V_{P-P} nominal

G: (1) 6-32 screw, chassis ground lug

RGBHV: (1) DB15HD female, RGB output
Formats: RGBHV, RGBS, RG_SB
Output Impedance: 75 ohms
Sync Impedance: 100 ohms
Maximum Output Level: 1 V_{P-P} maximum
Sync Level: 5 V_{P-P}

Controls

IM 1 – 3: (3) Screwdriver-adjustable bandwidth compensation (peak) adjustments
SW-R: (1) Recessed pushbutton for software reset

LED Indicators

PWR: (green) Indicates power connected to 18VDC connector
INPUT: (red) Indicates activity on any input port
IR: (red) Indicates activity on IR port
COM: (red) Indicates activity on COM port

Power Requirements

IM-RXV3: 54 Watts (3 Amps) @ 18 Volts DC
PW-1830RU Power Supply (included):
<1.6 Amps @ 100-240 Volts AC

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Black metal; freestanding, surface mount using "L" brackets provided, or pole mount using optional pole mount kit (sold separately)

Dimensions

Height: 1.61 in (4.08 cm)
Width: 8.75 in (22.23 cm)
Depth: 7.69 in (19.53 cm)

Weight

1.75 lbs (0.80 kg)

INCLUDED ACCESSORIES

PW-1830RU
Power Supply

** For iMedia use CresCAT-IM cable, or quality CAT5e/CAT6 cable having a maximum delay skew of 15nS per 100m.*

AVAILABLE ACCESSORIES

- **MK-IM-RX**
  Pole Mount Kit
- **CNSP-XX**
  Custom Serial Interface Cable
- **STIRP**
  IR probe
- **CNXRMCS**
  Current Sensor

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POWER SUPPLIES

PW-2410RU Regulated Universal Power Pack 24VDC, 1A (25 Watts)

The PW-2410RU is a 1 Amp regulated power supply designed to provide 24 Volts DC to power some models of Crestron control systems. Generally, the PW-2410RU may be used to power nearly any Cresnet device(s) provided the total combined power factor does not exceed 25 Watts. For US/International use.

SPECIFICATIONS

Connectors

24VDC: (1) Attached cable with 2.1mm barrel-type male DC connector, center pin +;
Rated for 25 Watts (1 Amp @ 24 Volts DC) regulated

Power: (1) IEC320 Socket
Mates with removable power cord, included

Power Requirements

100-250 Volts AC, 50/60 Hz

Enclosure

Black plastic, desktop

PW-2420RU Regulated Universal Power Pack 24VDC, 2A (50 Watts)

The PW-2420RU is a 2 Amp regulated power supply designed to provide 24 Volts DC to power some models of Crestron control systems and touchpanels. Generally, the PW-2420RU may be used to power nearly any Cresnet device(s) provided the total combined power factor does not exceed 50 Watts. For US/International use.

SPECIFICATIONS

Connectors

24VDC: (1) Attached cable with 2.1mm barrel-type male DC connector, center pin +;
Rated for 50 Watts (2 Amp @ 24 Volts DC) regulated

Power: (1) IEC320 Socket
Mates with removable power cord, included

Power Requirements

100-250 Volts AC, 50/60 Hz

Enclosure

Black plastic, desktop

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POWER SUPPLIES

PW-1830RU Regulated Universal Power Pack 18V DC, 3A

The PW-1830RU is the universal regulated power pack that is included as standard with IM-RX1 and IM-RX3 iMedia Receivers. Designed for US/International use.

SPECIFICATIONS

Connections

AC Input: (1) IEC320 male socket
Mates with removable 120V AC power cord, included

DC Output: (1) Attached 6 ft (1.83 m) cable with 3-pin locking DC power plug, male

Output: 3 Amps @ 18 Volts DC, regulated

LED Indicators

(1) green, indicates DC output

Power Requirements

<1.6A @ 100-240V AC, 50/60 Hz

Environmental

Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

High impact plastic, black

Dimensions

Height: 1.54 in (3.9 cm)
Width: 2.36 in (6.0 cm)
Depth: 4.65 in (11.8 cm)

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